TEJUS
CONSULTANTS

Name of Work	:	Widening of Major Sandeep Unnikrishnan Road from Doddaballapura Road to Yelahanka Bus stand road towards BWSSB Water tank side in ward No.04
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	Sri.Uday shetty
Date of Testing	:	07/12/16
Type of Mix	:	Tack coat
Sample I.D	:	1

DETERMINATION OF RATE OF SPREAD TACK COAT

Determination	Unit	Test No	
		1	2
Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
Area of Plate (a)	Sq.mtr	0.09	0.09
Initial Wt of empty Plate (b)	Kg	0.751	0.752
Final weight of plate after application of tack Coat (c)	Kg	0.774	0.779
Weight of tack Coat (d=c-b)	Kg	0.02	0.027
Rate of spread of tack coat	Kg/sq.m	0.26	0.30
Average	Kg/sq.m	0.278	
Specified Limit	Kg/sq.m	**0.250 Kg/sq.m**	

TEJUS
CONSULTANTS

Name of Work	:	Widening of Major Sandeep Unnikrishnan Road from Doddaballapura Road to Yelahanka Bus stand road towards BWSSB Water tank side in ward No.04
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	Sri.Uday shetty
Date of Testing	:	07/12/16
Type of Mix	:	Tack coat DBM
Sample I/D	:	2

DETERMINATION OF RATE OF SPREAD TACK COAT

Determination	Unit	Test No	
		1	2
Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
Area of Plate (a)	Sq.mtr	0.09	0.09
Initial Wt of empty Plate (b)	Kg	0.772	0.765
Final weight of plate after application of tack Coat (c)	Kg	0.796	0.789
Weight of tack coat (d=c-b)	Kg	0.024	0.024
Rate of spread of tack coat	Kg/sq.m	0.267	0.267
Average	Kg/sq.m	0.267	
Specified Limit	Kg/sq.m	**0.250 Kg/sq.m**	

TEJUS CONSULTANTS
No.208, 3rd main, 6th Cross, 1st Stage KHB Colony, Basaveshwaranagar, Bangalore - 560079.0 : +91 80 23287532, tejusconsultants@gmail.com

TEJUS
CONSULTANTS

Name of Work	:	Widening of Major Sandeep Unnikrishnan Road from Doddaballapura Road to Yelahanka Bus stand road towards BWSSB Water tank side in ward No.04
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	Sri.Uday shetty
Date of Testing	:	07/12/16
Type of Mix	:	Tack coat DBM
Sample I.D	:	3

DETERMINATION OF RATE OF SPREAD TACK COAT

Determination	Unit	Test No	
		1	2
Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
Area of Plate (a)	Sq.mtr	0.09	0.09
Initial Wt of empty Plate (b)	Kg	0.775	0.770
Final weight of plate after application of tack Coat (c)	Kg	0.801	0.795
Weight of tack coat (d=c-b)	Kg	0.026	0.025
Rate of spread of tack coat	Kg/sq.m	0.289	0.278
Average	Kg/sq.m	0.283	
Specified Limit	Kg/sq.m	**0.250 Kg/sq.m**	

TEJUS CONSULTANTS
No.68, 3rd main, 6th Cross, 1st Stage KHB Colony, Basaveshwaranagar, Bangalore - 560079.0 +91 80 23287532, tejusconsultants@gmail.com

TEJUS

	Widening of Major Sandeep Unnikrishnan Road from Doddaballapura Road to Yelahanka Bus stand road towards BWSSB Water tank side in ward No.04
	BRUHAT BANGALORE MAHANAGARA PALIKE
	M/s Tejus Consultants
	Sri.Uday shetty

AGGREGATE IMPACT VALUE
(IS: 2386 Part - 4)

	BC	Date of Sampling		07/12/16
	At plant	Date of Testing		07/12/16

Description		Test No. 1	Test No. 2	Test No. 3	Spec Limit (%)
Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	328.00	318.00	324.00	
Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	267.00	254.00	261.00	
Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	61.00	64.00	63.00	
Aggregate Impact Value (%)	(Wc/Wa)*100	18.60	20.13	19.44	
Average Aggregate impact value	(%)	19.39			Max - 30 %

Satisfactory / Not Satisfactory

Consultant's Representative

Department Engineer (AE/JE)

TEJUS
CONSULTANTS

Name	Widening of Major Sandeep Unnikrishnan Road from Doddaballapura Road to Yelahanka Bus stand road towards BWSSB Water tank side in ward No.04
Client	BRUHAT BANGALORE MAHANAGARA PALIKE
Contractor	M/s Tejus Consultants
Supervisor	Sri.Uday shetty

AGGREGATE IMPACT VALUE
(IS: 2386 Part - 4)

Quality Cat.	BC	Date of Sampling		07/12/16
Work Location	At plant	Date of Testing		07/12/16

Sl No.	Description		Test No. 1	Test No. 2	Test No. 3	Spec Limit (%)
a	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	328.00	318.00	324.00	
b	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	267.00	254.00	261.00	
c	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	61.00	64.00	63.00	
d	Aggregate Impact Value (%)	(Wc/Wa)*100	18.60	20.13	19.44	
e	Average Aggregate impact value	(%)		19.39		Max - 30 %

Remarks: Satisfactory / Not Satisfactory

Contractor's Representative | Department Engineer (AE/JE) | Consultant's Representative

TEJUS
CONSULTANTS

	Widening of Major Sandeep Unnikrishnan Road from Doddaballapura Road to Yelahanka Bus stan road towards BWSSB Water tank side in ward No.04
	BRUHAT BANGALORE MAHANAGARA PALIKE
	M/s Tejus Consultants
	Sri.Uday shetty

AGGREGATE IMPACT VALUE
(IS: 2386 Part - 4)

	BC	Date of Sampling		07/12/16
	At plant	Date of Testing		07/12/16

	Description		Test No. 1	Test No. 2	Test No. 3	Spec Lir (%)
	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	331.00	330.00	316.00	
	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	271.00	269.00	258.00	
	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	60.00	61.00	58.00	
	Aggregate Impact Value (%)	(Wc/Wa)*100	18.13	18.48	18.35	
	Average Aggregate impact value	(%)	18.32			Max - 30

Satisfactory / Not Satisfactory

TEJUS CONSULTANTS

Consultant's Representative | Department Engineer (AE/JE) | Consultant's Representative

TEJUS CONSULTANTS
No.18, 3rd main, 6th Cross, 1st Stage KHB Colony, Basaveshwaranagar, Bangalore - 560079. ☐ +91 80 23287532, tejusconsultants@gmail.com

TEJUS

Project	Widening of Major Sandeep Unnikrishnan Road from Doddaballapura Road to Yelahanka Bus stand road towards BWSSB Water tank side in ward No.04
Client	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	M/s Tejus Consultants
Contractor	Sri.Uday shetty

FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Type of Material	BC	Proposed Use	BC
Sample Location	At plant	Date of Sampling	07/12/16
Source of Material		Date of Testing	07/12/16

Size of aggregate		Flakiness Index		Elongation Index	
Passing through sieve, mm	Retained on IS sieve, mm	Total wt. of aggregate retained on sieves (A) gms.	Wt. of aggregate passing from Flakiness gauge (B) gms	Wt. of aggregate retained on Flakiness gauge (C) gms	Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	0	0	0	0
31.5	25.0	0	0	0	0
25.0	20.0	0	0	0	0
20.0	16.0	658	72	586	81
16.0	12.5	1121	131	990	134
12.5	10.0	901	81	520	69
10.0	6.3	492	38	454	59
Total		2872	322	2550	343

Note: Minimum 200 Pcs should be taken on each fraction of test

Flakiness Index(%):	11.21
Elongation Index(%):	13.45
Combined FI+EL (%)	24.66

TEJUS CONSULTANTS

No. 42, 2nd main, 6th Cross, 1st Stage KHB Colony, Basaveshwaranagar, Bangalore - 560079. O : +91 80 23287532 tejusconsultants@gmail.com

TEJUS
CONSULTANTS

Project	Widening of Major Sandeep Unnikrishnan Road from Doddaballapura Road to Yelahanka Bus stand road towards BWSSB Water tank side in ward No.04
Client	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	M/s Tejus Consultants
Contractor	Sri.Uday shetty

FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Type of Material	BC	Proposed Use	BC
Source/ Location	At plant	Date of Sampling	07/12/16
Source of Material		Date of Testing	07/12/16

Size of aggregate		Flakiness Index		Elongation Index	
Passing through Sieve, mm	Retained on IS sieve, mm	Total wt. of aggregate retained on sieves (A) gms.	Wt. of aggregate passing from Flakiness gauge (B) gms	Wt. of aggregate retained on Flakiness gauge (C) gms	Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	0	0	0	0
31.5	25.0	0	0	0	0
25.0	20.0	0	0	0	0
20.0	16.0	610	64	546	68
16.0	12.5	1100	128	972	141
12.5	10.0	552	78	474	62
10.0	6.3	498	56	442	61
Total		2760	326	2434	332

Note: Minimum 200 Pcs should be taken on each fraction of test

Flakiness Index(%):	11.81
Elongation Index(%):	13.64
Combined FI+EL (%)	25.45

TEJUS CONSULTANTS

No. 32, 3rd Main, 6th Cross, 1st Stage KHB Colony, Basaveshwaranagar, Bangalore - 560079. O : +91 80 23287532, tejusconsultants@gmail.com

TEJUS
CONSULTANTS

Name of Work	:	Widening of Major Sandeep Unnikrishnan Road from Doddaballapura Road to Yelahanka Bus stand road towards BWSSB Water tank side in ward No.04
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	**Sri.Uday shetty**
Date of Testing	:	07/12/16
Type of Mix	:	BC
Sample I/D	:	BC1

GRADATION FOR BC
(As per MORT&H 500-18,Grading-2)

Sample Location: At plant — Date of Sampling: 07/12/16

Date of testing: 07/12/16

Type of material & source: BC — Oven Dry Wt.(gms): 1250.0

Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
19.00	0	0	0.00	100.00	100.00
13.20	64	64.0	5.12	94.88	79 - 100
9.50	74	138.0	11.04	88.96	71 - 95
4.75	243	381.0	30.48	69.52	53 - 71
2.360	147	528.0	42.24	57.76	42 - 58
1.180	154	682.0	54.56	45.44	34 - 48
0.600	118	800.0	64.00	36.00	26 - 38
0.300	125	925.0	74.00	26.00	18 - 28
0.150	112	1037.0	82.96	17.04	12 - 20
0.075	162	1199.0	95.92	4.08	4 - 10
Pan	51.0				
Total	1250.0				

TEJUS
CONSULTANTS

Name of Work	:	Widening of Major Sandeep Unnikrishnan Road from Doddaballapura Road to Yelahanka Bus stand road towards BWSSB Water tank side in ward No.04
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	**Sri.Uday shetty**
Date of Testing	:	07/12/16
Type of Mix	:	BC
Sample ID	:	BC2

GRADATION FOR BC
(As per MORT&H 500-18,Grading-2)

Sample Location: At plant

Date of Sampling: 07/12/16

Date of testing: 07/12/16

Type of material & source: BC

Oven Dry Wt.(gms): 1200.0

Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
19.00	0	0	0.00	100.00	100.00
13.20	64	64.0	5.33	94.67	79 - 100
9.50	109	173.0	14.42	85.58	71 - 95
4.75	245	418.0	34.83	65.17	53 - 71
2.360	186	604.0	50.33	49.67	42 - 58
1.180	110	714.0	59.50	40.50	34 - 48
0.600	100	814.0	67.83	32.17	26 - 38
0.300	125	939.0	78.25	21.75	18 - 28
0.150	102	1041.0	86.75	13.25	12 - 20
0.075	111	1152.0	96.00	4.00	4 - 10
Pan	48.0				
	1200.0				

TEJUS CONSULTANTS

9th Cross, 1st Stage, HMT Colony, Basaveshwaranagar, Bangalore - 560079.0 +91 80 23267532, tejusconsultants@gmail.com

TEJUS

BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE MIX

Name of Work	:	Widening of Major Sandeep Unnikrishnan Road from Doddaballapura Road to Yelahanka Bus stand road towards BWSSB Water tank side in ward No.04
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	Sri.Uday shetty
Date of Testing	:	08/12/16
Type of Mix	:	BC
Sample I/D	:	BC1

DETERMINATION OF BITUMEN CONTENT

Description	Trail 1	Trail 2
1. Weight of Mixture before extraction, g	530.00	604.00
2. Weight of Mixture after extraction, g	504.00	572.00
3. Weight of Bitumen	26.00	32.00
4. Weight of filter paper before extraction, g	4.00	4.00
5. Weight of filter paper after extraction, g	6.00	6.00
6. Weight of fines, g	2.00	2.00
7. Weight of Bitumen & fines	28.00	34.00
8. Bitumen content in %	5.28	5.63
9. Average Bitumen content in %	5.46	

GRADATION FOR BC AFTER EXTRACTION
(As per MORT&H 500-18,Grading 2)

Sample Location: At site
Date of Sampling: 08/12/16
Date of testing: 09/12/16
Type of material & Purpose: BC
Oven Dry Wt.(gms): 504.0

IS Sieve size in mm	Weight retained(gm)	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
19.00	0	0	0.00	100.00	100.00
13.20	38	38.0	7.54	92.46	79 - 100
9.50	102	140.0	27.78	72.22	71 - 95
4.75	96	236.0	46.83	53.17	53 - 71
2.360	54	290.0	57.54	42.46	42 - 58
1.180	39	329.0	65.28	34.72	34 - 48
0.600	41	370.0	73.41	26.59	26 - 38
0.300	41	411.0	81.55	18.45	18 - 28
0.150	32	443.0	87.90	12.10	12 - 20
0.075	40	483.0	95.83	4.17	4 - 10
Pan	21.0				
Total	504.0				

TEJUS CONSULTANTS

TEJUS

BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE MIX

Name of Work	:	Widening of Major Sandeep Unnikrishnan Road from Doddaballapura Road to Yelahanka Bus stand road towards BWSSB Water tank side in ward No.04
lient	:	BRUHAT BANGALORE MAHANAGARA PALIKE
nsultant	:	M/s Tejus Consultants
ntractor	:	Sri.Uday shetty
te of Testing	:	08/12/16
pe of Mix	:	BC
mple I/D	:	BC2

DETERMINATION OF BITUMEN CONTENT

Description	Trail 1	Trail 2
eight of Mixture before extraction, g	537.00	491.00
ght of Mixture after extraction, g	510.00	466.00
ght of Bitumen	27.00	25.00
ght of filter paper before extraction, g	4.00	4.00
ght of filter paper after extraction, g	6.00	6.00
ght of fines, g	2.00	2.00
ght of Bitumen & fines	29.00	27.00
men content in %	5.40	5.50
verage Bitumen content in %	5.45	

GRADATION FOR BC AFTER EXTRACTION

(As per MORT&H 500-18,Grading-2)

e Locat on:	At site	Date of Sampling:	08/12/16
		Date of testing.	09/12/16
e of material & ose	BC	Oven Dry Wt (gms):	510.0

Sieve size in mm	Weight retained(gm)	Cummu ative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
19.00	0	0	0.00	100.00	100.00
13.20	62	62.0	12.16	87.84	79 - 100
9.50	84	146.0	28.63	71.37	71 - 95
4.75	92	238.0	46.67	53.33	53 - 71
2.360	57	295.0	57.84	42.16	42 - 58
1.180	41	336.0	65.88	34.12	34 - 48
0.600	40	376.0	73.73	26.27	26 - 38
0.300	42	418.0	81.96	18.04	18 - 28
0.150	30	448.0	87.84	12.16	12 - 20
0.075	40	488.0	95.69	4.31	4 - 10
Pan	22.0				
Total	510.0				

TEJUS CONSULTANTS

TEJUS
CONSULTANTS

me of Work	:	Widening of Major Sandeep Unnikrishnan Road from Doddaballapura Road to Yelahanka Bus stand road towards BWSSB Water tank side in ward No.04
ent	:	BRUHAT BANGALORE MAHANAGARA PALIKE
sultant	:	M/s Tejus Consultants
ractor	:	Sri.Uday shetty
e of Testing	:	08/12/16
of Mix	:	Tack coat
e I/D	:	1

DETERMINATION OF RATE OF SPREAD TACK COAT

Determination	Unit	Test No	
		1	2
Plate (mxm)	Mt	0.30 x .30	0.30 x .30
Plate (a)	Sq.mtr	0.09	0.09
t of empty Plate (b)	Kg	0.764	0.761
ght of plate after n of tack Coat (c)	Kg	0.788	0.783
tack Coat (d=c-b)	Kg	0.02	0.022
ead of tack coat	Kg/sq.m	0.27	0.24
	Kg/sq.m	0.256	
Limit	Kg/sq.m	**0.250 Kg/sq.m**	

TEJUS
CONSULTANTS

ame of Work	:	Widening of Major Sandeep Unnikrishnan Road from Doddaballapura Road to Yelahanka Bus stand road towards BWSSB Water tank side in ward No.04
ent	:	BRUHAT BANGALORE MAHANAGARA PALIKE
nsultant	:	M/s Tejus Consultants
ntractor	:	Sri.Uday shetty
e of Testing	:	08/12/16
e of Mix	:	Tack coat
mple I/D	:	2

DETERMINATION OF RATE OF SPREAD TACK COAT

Determination	Unit	Test No	
		1	2
f Plate (mxm)	Mt	0.30 x .30	0.30 x .30
f Plate (a)	Sq.mtr	0.09	0.09
Wt of empty Plate	Kg	0.761	0.763
weight of plate after ation of tack Coat (c)	Kg	0.784	0.787
of tack Coat (d=c-	Kg	0.023	0.024
spread of tack coat	Kg/sq.m	0.256	0.267
e	Kg/sq.m	0.261	
ed Limit	Kg/sq.m	**0.250 Kg/sq.m**	

TEJUS
CONSULTANTS

Name of Work	:	Widening of Major Sandeep Unnikrishnan Road from Doddaballapura Road to Yelahanka Bus stand road towards BWSSB Water tank side in ward No.04
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	Sri.Uday shetty
Date of Testing	:	08/12/16
Type of Mix	:	Tack coat
Sample I/D	:	3

DETERMINATION OF RATE OF SPREAD TACK COAT

Determination	Unit	Test No	
		1	2
Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
Area of Plate (a)	Sq.mtr	0.09	0.09
Wt of empty Plate	Kg	0.762	0.768
Wt weight of plate after application of tack Coat (c)	Kg	0.785	0.791
Wt of tack Coat (d=c-b)	Kg	0.023	0.023
Rate of spread of tack coat	Kg/sq.m	0.256	0.256
Average	Kg/sq.m	0.256	
Specified Limit	Kg/sq.m	**0.250 Kg/sq.m**	

TEJUS

	Widening of Major Sandeep Unnikrishnan Road from Doddaballapura Road to Yelahanka Bus stand road towards BWSSB Water tank side in ward No.04
	BRUHAT BANGALORE MAHANAGARA PALIKE
tant	M/s Tejus Consultants
ctor	Sri.Uday shetty

AGGREGATE IMPACT VALUE
(IS: 2386 Part - 4)

ed Use	BC	Date of Sampling		22/01/2017
Location	At plant	Date of Testing		22/01/2017

	Description		Test No. 1	Test No. 2	Test No. 3	Spec Limit (%)
	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	331.00	320.00	320.00	
	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	261.00	257.00	258.00	
	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	70.00	63.00	62.00	
	Aggregate Impact Value (%)	(Wc/Wa)*100	21.15	19.69	19.38	
	Average Aggregate impact value	(%)	20.07			Max - 30 %

Satisfactory / Not Satisfactory

s Representative | Department Engineer (AE/JE) | Consultant s Representative

TEJUS
CONSULTANTS

Name of Work	:	Widening of Major Sandeep Unnikrishnan Road from Doddaballapura Road to Yelahanka Bus stand road towards BWSSB Water tank side in ward No.04
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	**Sri.Uday shetty**
Date of Testing	:	22/01/2017
Type of Mix	:	BC
Sample I/D	:	BC2

GRADATION FOR BC
(As per MORT&H 500-18,Grading-2)

Sample Location:	At plant	Date of Sampling:	22/01/2017
		Date of testing:	22/01/2017
Type of material & source	BC	Oven Dry Wt.(gms):	1210.0

Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummu ative % of passing	Specification limits
19.00	0	0	0.00	100.00	100.00
13.20	62	62.0	5.12	94.88	79 - 100
9.50	112	174.0	14.38	85.62	71 - 95
4 75	247	421 0	34 79	65.21	53 - 71
2 360	194	615 0	50 83	49.17	42 - 58
1 180	125	740.0	61.16	38.84	34 - 48
0 600	112	852.0	70.41	29 59	26 - 38
0 300	124	976 0	80 66	19 34	18 - 28
0 150	75	1051.0	86.86	13.14	12 - 20
0 075	100	1151.0	95 12	4.88	4 - 10
Pan	59 0				
Total	1210.0				

TEJUS CONSULTANTS

TEJUS
CONSULTANTS

Project	Widening of Major Sandeep Unnikrishnan Road from Doddaballapura Road to Yelahanka Bus stand road towards BWSSB Water tank side in ward No.04
Client	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	M/s Tejus Consultants
Contractor	Sri.Uday shetty

FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Type of Material	BC	Proposed Use	BC
Sample Location	At plant	Date of Sampling	23/01/2017
Source of Material		Date of Testing	23/01/2017

Size of aggregate		Flakiness Index		Elongation Index	
Passing through IS sieve, mm	Retained on IS sieve, mm	Total wt. of aggregate retained on sieves (A) gms.	Wt. of aggregate passing from Flakiness gauge (B) gms	Wt. of aggregate retained on Flakiness gauge (C) gms	Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	0	0	0	0
31.5	25.0	0	0	0	0
25.0	20.0	0	0	0	0
20.0	16.0	610	71	539	68
16.0	12.5	1100	124	976	134
12.5	10.0	552	77	475	62
10.0	6.3	498	57	441	63
Total		2760	329	2431	328

Note: Minimum 200 Pcs should be taken on each fraction of test

AE

Flakiness Index(%):	11.92
Elongation Index(%):	13.49
Combined FI+EI (%)	25.41

TEJUS

BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE MIX

Name of Work	:	Widening of Major Sandeep Unnikrishnan Road from Doddaballapura Road to Yelahanka Bus stand road towards BWSSB Water tank side in ward No.04
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	**Sri.Uday shetty**
Date of Testing	:	23/01/2017
Type of Mix	:	BC
Sample I/D	:	BC1

DETERMINATION OF BITUMEN CONTENT

Description	Trail 1	Trail 2
1. Weight of Mixture before extraction, g	953.00	500.00
2. Weight of Mixture after extraction, g	904.00	474.00
3. Weight of Bitumen	49.00	26.00
4. Weight of filter paper before extraction, g	4.00	4.00
5. Weight of filter paper after extraction, g	5.00	6.00
6. Weight of fines, g	1.00	2.00
7. Weight of Bitumen & fines	50.00	28.00
8. Bitumen content in %	5.25	5.60
9. Average Bitumen content in %	**5.42**	

GRADATION FOR BC AFTER EXTRACTION

(As per MORT&H 500-18,Grading-2)

Sample Location:	At site	Date of Sampling:	23/01/2017
		Date of testing:	23/01/2017
Type of material & Purpose:	BC	Oven Dry Wt.(gms):	904.0

IS Sieve size in mm	Weight retained(gm)	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
19.00	0	0	0.00	100.00	100.00
13.20	82	82.0	9.07	90.93	79 - 100
9.50	174	256.0	28.32	71.68	71 - 95
4.75	161	417.0	46.13	53.87	53 - 71
2.360	102	519.0	57.41	42.59	42 - 58
1.180	71	590.0	65.27	34.73	34 - 48
0.600	71	661.0	73.12	26.88	26 - 38
0.300	73	734.0	81.19	18.81	18 - 28
0.150	54	788.0	87.17	12.83	12 - 20
0.075	79	867.0	95.91	4.09	4 - 10
Pan	37.0				
Total	904.0				

TEJUS CONSULTANTS

No. 4, 6th Cross, 1st Stage KHB Colony, Basaveshwaranagar, Bangalore - 560079.D. +91 80 6328 7532 tejusconsultants@gmail.com

TEJUS
CONSULTANTS

Name of Work	:	Widening of Major Sandeep Unnikrishnan Road from Doddaballapura Road to Yelahanka Bus stand road towards BWSSB Water tank side in ward No.04
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	Sri.Uday shetty
Date of Testing	:	23/01/2017
Type of Mix	:	Tack coat
Sample I/D	:	3

DETERMINATION OF RATE OF SPREAD TACK COAT

Determination	Unit	Test No	
		1	2
Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
Area of Plate (a)	Sq.mtr	0.09	0.09
Initial Wt of empty Plate (b)	Kg	0.760	0.764
Final weight of plate after application of tack Coat (c)	Kg	0.785	0.788
Weight of tack Coat (d=c-b)	Kg	0.025	0.024
Rate of spread of tack coat	Kg/sq.m	0.278	0.267
Average	Kg/sq.m	0.272	
Specified Limit	Kg/sq.m	**0.250 Kg/sq.m**	